BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name Of Work :- Detailed Estimate for Operation and Maintenance of Park Lighting System in Ward No.3 & 4 Package Y-12 of Yelahanka Zone.

Budget Head P0300

Division No..... Estimate No. ...18/2019-20 For Rs.= 1990000.00

Sl. No.	Description of Work	Qty.	Rate Per Year Rs. Ps.	Unit	Amount
1	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for various type of street lighting systems as detailed below. i) Poles with 36/40 W fluorescent tube light street lighting system.	1	685.45	Each	685.45
2	Poles with 125 W MV light Park lighting system.	601	756.29	Each	454530.29
3	Poles with 250W HPMH light street lighting system.	99	1123.14	Each	111190.86
4	Poles with 400 watts HPSV light street lighting system.	16	1118.08	Each	17889.28
5	Poles with 24 W LED light street lighting system.	100	880.01	Each	88001.00
6	Poles with 65 W LED light street lighting system.	1	1147.43	Each	1147.43
7	Poles with 90 W LED light street lighting system.	10	1377.66	Each	13776.60
8 72/13.1 7.1	B. Work to be carried out as per requirement & actuals and as per the direction of the in charge engineer, Painting of existing street light pole after scrapping the old paint and painted with suitable colour enamel/Silver paint including coping/looting of the pole.a)5 mtr pole	950	550.00	Each	522500.00
9 72/13.1 7.3	c) 8 Mtr and above street light pole	99	770	Each	76230.00
10	Operation and maintenance of Manual and Automatic Timer Switching circuits including replacement of electrical gadgets, such as MCB's Contactors, Timer, Cut-outs, wiring connector and M.S. Box with proper insulation etc., complete.	25	3115.44	Each	77886.00
11 XIV 256	Moulded Case Circuit Breaker (MCCB) Three Pole 100Amps 25kA	13	2718.00	Each	35334.00
12. P-XIV 244	4 Pole Power Contactor with NO/NC Contactor.100-125Amps	10	4320	Each	43200
13 P-XV 276	Miniature Circuit Breakers. 40 Amps SP	25	427.8	Each	10695
14 40/6.4.4	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.4 core 16 sqmm	200	150.00	Mtrs	30000.00
15 41/6.5.1	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct. 6 sqmm to 16 sqmm	200	30.00	Mtrs	6000.00
16 41/6.6.1	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete.	149	76.00	Mtrs	11324.00
17 32 / 9	Supplying and fixing electro mechanical timer (without contactor) using necessary bolts, nuts and waqshers etc.. Group A, PWD Elec SR 2006-07.	6	4200.00	Each	25200.00
18. KE/31/LMW/2017 Dated 28/4/2017	Providing servicess of Electrician With tools , Rs.14021.27/Month/person, Rs.14021.27÷26Days=539.27/Day/Person, Including E.S.I & PF, As per Go No KE/31/LMW/2017 Dated 28/4/2017 for maintenance of Fountain	365	539.27	ManDays	196833.55

19 6/2.3.3	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and Copper conductor single core cable in open or consealed system of wiring.I Group A Materials.6 sqmm	300	70	Mtrs	21000.00
20	Transporting and erecting of 3.5 Mtrs long Swged Tubelor park poles including Digging of pit 45x45x100cms & providing 1:2:4 concrete of size 35x35x130 cms Including coping as per the detaild enclosed civil estimate & drawimg	10	972	Nos	9720.00
21	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Powerconsumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source.KPWD ELE SR Page-66/12.8 LED Streetlight 90 Watts	17	7160.00	Each	121720.00
22	GST 12% ON item 8,9,11,12,13,14,15,16,19 & 21				114784.44
23	Misleniuos				352.1
	Total Rs				1990000.00

CERTIFICATE

1. The Place was inspected and work is essential
2. The Provision made in the estimate is adequate and are necessary.
3. The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.
4. The rates in the Estimate is based on PWD (Elec) SR of 2019-20 / , BESCOM SR approved rates

Asst. Engineer (Elec)

Asst. Exe.Engineer (Elec)
Sub-Division No.
Bruhat Bangalore Mahanagara Palike

EXECUTIVE ENGINEER (ELEC)
YELAHANKA DIVISION
BRUHAT BANGALORE MAHANAGARA PALIKE

Administrative Sanction for Rs. 19.90 LAKHS
RUPEES NINETEEN LAKHS AND
NINTY THOUSAND ONLY
is accorded under P0300 M AND R TO
STREET LIGHTS REPLACEMENT
OF BURNT BULBS ETC (PACKAGE)
Registered as CE(T) 18/2019-20 Subject
to conditions contained in aforesaid memo
No. BBMP/EE(E)/N2/AS/18/2019-20
Dt 30-11-2019

Executive Engineer

for Rs. 19,90,000
NINETY LAKHS NINETY
THOUSAND ONLY
Under P 300
Job Code No. 003-20-000040
Registered as SE(Y)/TS/ 17 19-20
to conditions contained in enclosed
No. 17 / 19-20 Dated: 12/12/2019

AE/JE TA 12/12/19